

TDPF0020US

ABSTRACT OF THE DISCLOSURE

Virtual recording cells are assumed within a groove on a recording layer of an optical recording medium. Recording marks with five or more different sizes are formed on each of

5 the virtual recording cells by means of modulating the irradiation time of the laser beam in five levels or more in correspondence to the information to be recorded. The reflectance of the virtual recording cells modulates in many levels and the reflection level of the readout laser beam during

10 regeneration is modulated in five levels or more.

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